

CHEMICALS GOOD FOR KILLING OF WEEDS

Common Salt, Mineral Oils, and Sodium Arsenite Are Comparatively Inexpensive and Effective if Used Properly—Apply Them in Cloudy, Humid Weather for Best Results.

Killing weeds is usually attended by the necessity of preserving grass or other vegetation, and consequently involves considerable work. Some times, however, it is desirable to keep an area clear of all vegetable life, as in the case of driveways, pavements, sidewalks, tennis courts, railroad rights-of-way, ditches, etc. In such cases a good chemical weed killer, properly used, will perform the work more quickly and easily and often more cheaply.

The United States Department of Agriculture has tested a large number of chemicals for the purpose, but most of them are either ineffective or too expensive; but three substances have been found generally satisfactory. They are sodium arsenite, oil, and common salt. Sodium arsenite is the most powerful plant poison known that is cheap and readily prepared, and is the active constituent of practically all proprietary "weed killers." It is rather difficult to obtain ready made, and should be used while fresh, as it oxidizes readily and hardens when exposed to the air for several weeks.

Preparing Sodium Arsenite
For persons having some experience in the handling of chemicals sodium arsenite can readily be made at home according to one of the following formulas:

Formula 1

Caustic soda (sodium hydroxide) pounds 2
Or high-grade concentrated lye—do 3
White arsenic (arsenic trioxide)—do 4
Water, to make, gallon 1
The caustic soda should be in the granulated form and of the grade known as 95 per cent, technical. This quality of caustic soda is sold in drums containing 5 pounds or more and can often be obtained from dealers in laundry supplies. For small operations the pure caustic soda, which comes in the form of sticks is convenient. White arsenic is a fine, white powder which is easily obtainable. Mix the caustic soda or lye with the white arsenic in a wooden, earthenware, or graniteware receptacle. Add the water slowly. In about 20 seconds the solution will begin to boil violently and should be stirred vigorously with a wooden paddle. The heat generated is usually sufficient to cause all the arsenic to dissolve and the mixture to become a gray, syrupy liquid. In case some of the arsenic remains in suspension, however, it will be necessary to heat the solution until the arsenic disappears. After cooling thoroughly add enough water to replace evaporation.

Formula 2

Washing soda (sodium carbonate or sal soda) pounds 8
Or soda ash (anhydrous sodium carbonate) pounds 4
White arsenic (arsenic trioxide) do 4
Water, to make, gallon 1
This mixture does not generate heat upon adding water, and must be boiled to bring the arsenic into solution. In either of the above formulas 1 gallon of the solution contains 4 pounds of soluble arsenic trioxide, or approximately 5 1-3 pounds of arsenite of soda.

How to Apply the Weed Killer
To prepare the weed-killer solution

LUCKY STRIKE cigarette



dissolve 5 pounds of prepared sodium arsenite or 1 gallon of the above stock solution in 50 gallons of water. The amount to be used per given area depends upon the character and size of vegetation, the weather, and method of application. For average conditions 600 gallons of the weed-killer solution are required per acre, or 1 gallon of concentrated stock solution would make sufficient weed-killing solution to cover an area 60 by 60 feet.

Chemical weed killers give the best results on a cloudy, humid day, when rain is not expected within 12 hours. Treatment should not be given while the soil is wet, but if it is very dry it should be moistened slightly to prevent the chemical from soaking in too rapidly. When the vegetation is large it should be mowed before treatment, after which it is well to wait several days before treatment, allowing the vegetation to partially resume growth and exhaust the roots.

Not all plants are affected alike by the chemical. Perennial plants like dock, horsetail, and quackgrass are very persistent, and continue to send up new leaves as fast as the old ones are killed. As it is impracticable to use enough chemical to penetrate the soil and kill the roots, it is necessary to exhaust the roots by continually killing back the top growth. Annual plants are usually dead in one to three days. For ordinary purposes a sprinkling can, a small watering can, or a garden hose and nozzle fastened to a force pump are the most convenient for applying the poison.

Almost all oils are destructive to vegetation, but the mineral oils are the only ones cheap enough for general use. Oils are usually applied at the rate of 300 to 400 gallons per acre. A high-powered spray pump is very desirable for this work. Common salt is a cheap and easily obtained chemical and its use for killing weeds in sidewalks and gutters is well known. Salt is applied either dry or in solution. Dry salt is used at the rate of 3 to 10 tons per acre, or a solution of 3 1-3 pounds to the gallon is applied at the rate of 250 to 400 gallons per acre. There is no particular advantage in having the brine heated.

Waste chemicals from industrial works can sometimes be obtained at small costs for weed killing. The most common waste chemicals are sodium chloride, sodium sulphate, calcium chloride, waste acid, and waste oil.

ATLANTA DETECTIVES PRESENT DEFENSE

Atlanta, Ga., April 25.—Presentation of defense testimony by various members of the city detective department with connivance with gamblers and swindlers was begun before the councilmanic committee here late today with statements that the city detective force is not large enough to handle the situation.

Three members of the detective department and John Starnes, a former city detective, were called at the first session for the defense and most of the testimony centered on the killing several years ago of Ed Mills by Floyd Woodward, both alleged members of a band of confidence men. Woodward told a coroner's jury he shot Mills in self defense and he was not bound over to the grand jury. The detectives testified that they made as thorough an inquiry as possible into the case, while on cross examination counsel for the citizens' committee tried to show their work was not coordinated. Presentation of 43 sealed indictments in connection with the grand jury investigation of the alleged "buco" syndicate will not be made until after the counsel's investigation has been concluded, it was announced today. That decision was reached by the members of the grand jury, it was stated.

TWO BUDGET BILLS BEFORE CONGRESS

Washington, April 25.—The national budget bill, with the same provision which caused its veto last year by President Wilson, was reported to the house today by Chairman Good, of the special budget committee.

The measure, as agreed upon by the senate and house in the 66th congress, was objected to by the president because of the section providing that the comptroller general and his assistant, whose offices would be created by the measure, be subject to removal by impeachment or by concurrent resolution, after hearing, for neglect, inefficiency or malfeasance. Mr. Wilson held that the president who would appoint these officials, alone could remove them.

In presenting the measure Chairman Good reported that one change provided for appointment by the president of a director and assistant director of the bureau of budget, at

salaries of 10,000 and 7,500 respectively. The old bill made the secretary of the treasury the director.

A similar budget bill, introduced by Senator McCormick, Republican, Illinois, also was reported favorably late today by the senate budget committee.

TALK IN HOUSE OF DISARMAMENT

Consideration of Naval Bill Postponed—Much Money Needed—Ninety Million Dollars Would Be Used to Complete Building Program of 1916.

Washington, April 25.—Disarmament sidetracked consideration of the naval appropriation bill in the house today, when Representative Kelly, Republican, Michigan, brought forward the committee proposals to provide \$396,000,000 for the navy's next fiscal year, of which \$90,000,000 would be used toward completion of the 1916 building program. The expansion program, Mr. Kelly asserted, would help "to lift the load now on the shoulders of the world for armament construction and maintenance."

"When these ships we are building have been completed," he said, "the United States will equal in sea power any nation in the world, and will be in a position to offer proportionate reduction in armament."

Theodore Burton, Republican, of Ohio, former senator, supported the committee spokesman in his declaration for an adequate navy and also urged that there be the nucleus of a large army for the United States. He declared, however, that "the time has come for an international conference for the sake of stopping this mad-dening competition for the construction of armadas."

This view was endorsed by Representative Byrnes, Democrat, South Carolina, who turning to taxation features involved in military programs, said congress this year would appropriate five and a half billions, or \$50 a head for each citizen of the United States.

MANY I. W. W. LEAVE FOR LEAVENWORTH

Chicago, April 25.—Dispirited and leaderless in the absence of William D. ("Big Bill") Haywood, who automatically became a fugitive from justice, ten I. W. W. members departed tonight for the federal prison at Leavenworth, Kan., to complete their sentences for obstructing the nation's war work.

The twelve Chicago contingent of the 47 I. W. W., who recently had been denied a new trial by the United States supreme court and were ordered back to prison for terms varying from five to 20 years after having been at liberty on bonds.

Haywood, who disappeared about a month ago and has been reported seeking Bolshevik aid in Russia, because of his failure to report on time, will be branded a fugitive at midnight tonight and every effort will be exerted by the department of justice to obtain his apprehension, it was announced by federal officials.

"We have reports that he is now in Russia, but will notify us of his willingness to return by cablegram within the next few days," said one official.

The prisoners were accompanied to the train by a group of sad faced wives, sweethearts and friends.

NOTICE

Notice is hereby given that lands in Santee Swamp, between Wright's Bluff and Williamsburg County line in Clarendon County, formerly owned by Santee River Cypress Company, is now leased by The Brooklyn Cooperative Company of Georgetown, S. C. Hunting, fishing and grazing rights on above area have been leased to The Black Oak Hunting Club. The Brooklyn Cooperative Company, 16-31-c. By Woods, Supt.

TRESPASS NOTICE

All persons are warned that any trespassing on the lands owned by The Santee River Cypress Lumber Company, now leased by The Brooklyn Cooperative Company of Georgetown, S. C., will be prosecuted to the fullest extent of the law. These lands run from Wright's Bluff to the Williamsburg County line in Clarendon County. Any one desiring permits to hunt, fish or graze on these lands should apply to any of the following wardens:

F. R. Dingle, Summerton, S. C.
Jeff M. Davis, Summerton, S. C.
R. F. D. No. 1.
W. A. Richbourg, Summerton, S. C.
R. F. D. No. 4.
C. M. Davis, Son & Co., Davis Station, S. C.

CYPRESS SASH DOORS BLINDS

L. WETHERBORN & SON
CHARLESTON
S. C.
MOULDINGS
AND
MILLWORK

S. A. Thompson, Jordan, S. C.
W. D. Richbourg, Jordan, S. C.
Louis Allsbrook, Foreston, S. C., R. F. D.
H. S. B. Tate, Vance, S. C.
The Black Oak Hunting Club,
16-61-c. S. W. Barron, Sec.

NOTICE OF DISCHARGE

I will apply to the Judge of Probate for Clarendon County, S. C., on the 9th day of May, 1921 at 11 o'clock a. m. for Letters of Discharge as Administrator of the Estate of James Morris, deceased.

Joseph D. Mitchum,
Administrator.
Jordan, S. C., April 9, 1921 pd.

ADMINISTRATOR'S SALE

Pursuant to an order of J. M. Windham, Probate Judge, I will sell to the highest bidder for cash, at the residence of Peter L. Holliday, deceased at 11 o'clock A. M., on Friday 6th day of May, 1921 the following personal property; about 125 bushels of corn, 1 horse, 1 lot of plantation tools, plow implements etc.

Young A. Holliday,
Administrator.
Manning, S. C., April 20, 1921—pd.

CITATION NOTICE

The State of South Carolina,
County of Clarendon.

By J. M. Windham, Probate Judge: Whereas, J. A. Weinberg made suit to me to grant him Letters of Administration with the Will annexed of the Estate and effects of Annie R. Loryea. These are, therefore, to cite and admonish all and singular the Kindred and Creditors of the said Annie R. Loryea deceased, that they be and appear before me, in the Court of Probate, to be held at Manning on the 2nd day of May next, after publication hereof, at 11 o'clock in the forenoon, to show cause, if any they have, why said Administration should not be granted.

Given under my hand this 12th day of April, Anno Domini, 1921.

J. M. Windham,
Judge of Probate.

State of South Carolina,
County of Clarendon.
Court of Common Pleas
DECEREE
Henry Weinberg, Plaintiff,
vs.
W. M. Turbeville and D. M. Turbeville, Defendants.

Pursuant to a Decree of the Court of Common Pleas for said County and State made in above entitled action dated March 18, 1921, I, J. E. Gamble, Sheriff of Clarendon County will sell at public auction to the highest bidder for cash, in front of the Court House Door at Manning, S. C., on Monday, May 2, 1921, being sales-day, within the legal hours for judicial sales, the following described real estate:

"All of our right, title and interest

in and to that tract of land in Clarendon County, said State, containing forty-nine and three-tenths acres, more or less, which is designated as lot No. 8 on a certain plat made by McLellan and Palmer, C. E., dated July 1917, which plat is filed in the office of C. C. C. P. for Clarendon County in the record of the proceedings wherein D. E. Turbeville and J. F. Turbeville in their own right and as Administrators of the estate of S. C. Turbeville, deceased, were plaintiffs, against D. M. Turbeville, Alice N. Pittman and others, defendants; said parcels of land being bounded on the North by lands said to be of Green, on the East by other lands of D. E. Turbeville and J. F. Turbeville, on the South by the public road; and being land of the estate of Mrs. T. H. S. Turbeville. This being the land conveyed to us by D. E. and J. F. Turbeville, by deed dated December 5, 1917."

J. E. Gamble,
Sheriff of Clarendon County.

State of South Carolina,
Clarendon County.
Court of Common Pleas.
DECEREE.

Mitchell Levi and Ferdinand Levi, Co-partners under the firm name and style of Levi Brothers, Plaintiffs,
vs.
Elisha Smith, Elinda Smith, Paul Smith and Mary Jane Smith, Defendants.

Pursuant to a Decree of the Court of Common Pleas for said County and State made in above entitled action dated March 23, 1921, I, J. E. Gamble, Sheriff of Clarendon County will sell at public auction to the highest bidder for cash, in front of the Court House Door at Manning, S. C., on Monday, May 2, 1921, being sales-day, within the legal hours for judicial

sales, the following described real estate:

All of that piece, parcel or tract of land, lying, being an situated on Big Branch and Halfway Swamp, in the County of Clarendon, State aforesaid, containing twenty-five acres, more or less, and has such boundaries as is stated in a plat made by John R. Haynsworth, dated October 14th, 1897 and recorded in the Office of the Clerk of Court for Clarendon County, in Book No. 3 at page 343. The said tract of land being the same conveyed to the said David Smith, by deed dated October 26th, 1900 by J. C. Rose, said deed recorded in the Office of the Clerk of Court for Clarendon County, in Book M-3 at page 744.

J. E. Gamble,
Sheriff of Clarendon County.

NOTICE

All creditors and debtors in re: estate of the late L. B. Asbell (Summerton Drug Co., Summerton, S. C.) deceased are hereby notified to render their accounts duly attested and to make any and all payment due said estate to the undersigned at Edgefield, S. C., or to Summerton Drug Co., at Summerton, S. C.

E. C. ASBELL,
Administrator, Estate of L. B. Asbell.
8-11-c.

NOTICE OF DISCHARGE

I will apply to the Judge of Probate for Clarendon County, S. C., on the 2nd day of May, 1921 at 11 o'clock a. m. for Letters of Discharge as Guardian for R. James Aycock, George J. Aycock and M. Maude Aycock, formerly M. Maude Aycock, formerly minors.

L. M. Jones,
Guardian.
Acolu, S. C., April 1, 1921. pd

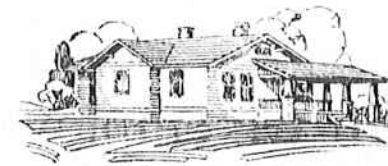
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